



**Product:** [TM-SD9-012-LNA](#)

Marine, In+Outdoor, DN, OS2, 12f, Non-Unit, Sgl Jkt - LSZH, OFNR-ST1, ABS



## Product Description

Marine Grade, Indoor/Outdoor, Distribution, OS2, 12 Fibers, Non-Unit 900um, Single Jacket - LSZH, OFNR-ST1, ABS Approved

## Technical Specifications

### Product Overview

Product Category:	Fiber Distribution Cable
Suitable Applications:	Extended Distance Horizontal & Backbone Data/Telco Network, Noisy Environment, Indoor/Outdoor & Wet Locations

### Fiber Specifications

Fiber Type:	OS2
Fiber Core Diameter:	8.2/125 $\mu$ m
Fiber Diameter:	250 $\mu$ m
Buffer Material:	LSZH - Low Smoke Zero Halogen
Buffer Diameter:	900 $\mu$ m
Fiber Count:	12
Fiber Color Coding:	TIA-598-D

### Outer Jacket Specifications

Strength Member:	Waterblocking Aramid Yarns
Jacket Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	0.320 in (8.1 mm)
Number of Ripcords:	1

### Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.50 dB/km	0.50 dB/km
Mode Field Diameter	9.2 $\mu$ m	10.4 $\mu$ m
1 Gigabit Ethernet Performance	5000 m	-
10 Gigabit Ethernet Performance	10,000 m	40,000 m

### Mechanical Characteristics

Min. Bend Radius During Installation:	15x Cable OD
Min. Bend Radius During Operation:	10x Cable OD
Max. Tensile Strength During Installation:	660 N (150 lbf)
Max. Tensile Strength During Operation:	200 N (45 lbf)
Crush Resistance:	220 N/cm
Bulk Cable Weight:	36 lbs/kft (54 kg/km)

### Temperature Range

Installation Temperature Range:	-10°C to +60°C
Operating Temperature Range:	-40°C to +70°C
Storage Temperature Range:	-40°C to +70°C

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	OFNR-ST1, FT4
ICEA Compliance:	S-104-696
IEEE Compliance:	IEEE 45
Marine Compliance:	ABS

## History

Update and Revision:	Revision Number: 0.21 Revision Date: 11-14-2022
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## Part Numbers

### Variants

Item #	Color	Putup Type
TM-SD9-012-LNAN	Black	Reel

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